

Message Text

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ORIGIN EB-07

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DRAFTED BY EB/ITP/EWT - RPRACHT:LLB

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FM SECSTATE WASHDC

TO USMISSION OECD PARIS PRIORITY

C O N F I D E N T I A L STATE 106691

EXCON

E.O. 11652: XGDS-1

TAGS: ESTC, COCOM

SUBJ: COCOM LIST REVIEW: IL 1016, GRINDING HEADS AND
SPINDLE ASSEMBLIES

FOLLOWING IS US COUNTERPROPOSAL ON SUBJECT ITEM NOW UNDER
INTER-AGENCY CLEARANCE. WE EXPECT TRANSMIT FINAL CLEARANCE
WITHIN FEW DAYS SO USDEL MAY PREPARE AS OFFICIAL SUBMISSION
IN TIME FOR MAY 13 DEADLINE.

IL 1016

COMPONENTS AND SPECIALLY DESIGNED PARTS FOR MACHINE TOOLS
AND DIMENSIONAL INSPECTION MACHINES, AS FOLLOWS:

A. SPINDLE ASSEMBLIES, CONSISTING OF SPINDLES AND
BEARINGS AS A MINIMAL ASSEMBLY, EXCEPT THOSE ASSEMBLIES
WITH AXIAL AND RADIAL AXIS MOTION MEASURED ALONG THE
SPINDLE AXIS IN ONE REVOLUTION OF THE SPINDLE EQUAL
TO OR GREATER (COARSER) THAN THE FOLLOWING:

(1) 0.0008 MM TIR (PEAK TO PEAK) FOR LATHES AND
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TURNING MACHINES, OR

(2) D X 2 X 10 TO THE -5 MM TIR (PEAK TO PEAK), WHERE
D IS THE SPINDLE DIAMETER IN MILLIMETERS FOR MILLING
MACHINES, BORING MILLS, JIG GRINDERS, AND MACHINING

CENTERS.

B. LEAD SCREWS, INCLUDING BALL NUT SCREWS, EXCEPT THOSE
HAVING ALL THE FOLLOWING PARAMETERS.

(1) ACCURACY EQUAL TO OR GREATER (COARSER) THAN .004
MM /300 MM.

(2) OVERALL ACCURACY EQUAL TO OR GREATER (COARSER)
THAN $(.0025 \times 10^{-6} \times L)$ MM WHERE L IS THE
EFFECTIVE LENGTH IN MILLIMETERS OF THE SCREW.

(3) CONCENTRICITY OF THE CENTER LINE OF THE JOURNAL
BEARING SURFACE AND THE CENTER LINE OF THE MAJOR
DIAMETER OF THE SCREW EQUAL TO OR GREATER (COARSER)
THAN .005 MM TIR (PEAK TO PEAK) AT A DISTANCE OF 3
TIMES THE DIAMETER OF THE SCREW OR LESS FROM THE
JOURNAL BEARING SURFACE.

C. LINEAR AND ROTARY POSITION FEEDBACK ELEMENTS INCLUDING
INDUCTIVE TYPE DEVICES, GRADUATED SCALES, AND LASER
SYSTEMS, EXCEPT (1) LINEAR SYSTEMS HAVING AN ACCURACY
EQUAL TO OR GREATER (COARSER) THAN $(.0015 \times 10^{-6} \times L)$ MM WHERE L IS THE EFFECTIVE LENGTH IN
MILLIMETERS OF THE LINEAR MEASUREMENT, AND (2) ROTARY
SYSTEMS HAVING AN ACCURACY EQUAL TO OR GREATER (COARSER)
THAN 2 SECONDS OF ARC. KISSINGER

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